

POLYESTER FIBER GOOD IN FALSE TWISTING PROCESSABILITY

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Abstract

PROBLEM TO BE SOLVED: To provide a PTT-POY (polytrimethylene terephthalate partially oriented yarn) capable of enabling the industrial production by suppressing the causing of bulge and tightening of winding, capable of suppressing the generation of fluff and yarn break at the time of draw-false twist texturing at a high speed by making the fiber homogeneous, and capable of being stably subjected to the draw-false twist texturing at the high speed.

SOLUTION: This PTT-POY is produced by crystallizing the fiber by heat-treating the fiber under a specific condition making the spinning condition proper, and using a special spinning method of winding the fiber at an extremely low tension, has an orientation, crystallinity and U% within specified ranges, and contains a specific amount of titanium oxide particles having a little amount of coagulated bodies. As a result, the tightening of the winding and the causing of the bulge which are large problems in the production of the PTT-POY is evaded, and properties for the draw-false twist texturing at the high speed is extremely improved.

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